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## NOTICE OF ALLOWANCE AND FEE(S) DUE

20210 7590 09/29/2008

DAVIS BUJOLD & Daniels, P.L.L.C.  
112 PLEASANT STREET  
CONCORD, NH 03301

EXAMINER

HO, HA DINH

ART UNIT

PAPER NUMBER

3681

DATE MAILED: 09/29/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/585,958	07/13/2006	Gerhard Buck	ZAHFRI P869US	6203

TITLE OF INVENTION: MULTISPEED MANUAL TRANSMISSION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/29/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE** OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

## HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER:** Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

# **PART B - FEE(S) TRANSMITTAL**

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE  
Commissioner for Patents  
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**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

20210 7590 09/29/2008

DAVIS BUJOLD & Daniels, P.L.L.C.  
112 PLEASANT STREET  
CONCORD, NH 03301

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

## **Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

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10/585,958	07/13/2006	Gerhard Buck	ZAHFRI P869US	6203

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nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/29/2008

EXAMINER	ART UNIT	CLASS-SUBCLASS
HO, HA DINH	3681	074-325000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB-122) attached.  
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB-47; Rev 03-02 or more recent) attached. Use of a **Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 \_\_\_\_\_  
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 \_\_\_\_\_  
 3 \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee  
☐ Publication Fee (No small entity discount permitted)  
☐ Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.  
☐ Payment by credit card. Form PTO-2038 is attached.  
☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature \_\_\_\_\_ Date \_\_\_\_\_  
 Typed or printed name \_\_\_\_\_ Registration No. \_\_\_\_\_

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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3681

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## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 382 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 382 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

## Application No.

10/585,958

## Examiner

HA D. HO

## Applicant(s)

BUCK ET AL.

## Art Unit

3681

### - The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Application filed 07/13/06.
2. ☒ The allowed claim(s) is/are 20-27.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☒ All b) ☐ Some\* c) ☐ None of the:  
1. ☒ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  
1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.  
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.  
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date 07/13/06
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
  2. Authorization for this examiner's amendment was given via email with Mr. Bujold on 09/23/08.
  3. The application has been amended as follows:
    - Claim 12-19 have been canceled.
    - New claims 20-27 have been added as follows:
20. (NEW) A shiftable multispeed reverse transmission comprising an input shaft (1) and first, second, third, fourth, fifth, sixth countershafts (2, 3, 4, 5, 6, 7), one or more fixed gears and idle gears being mounted on the first, the second, the third, the fourth, the fifth, the sixth countershafts (2, 3, 4, 5, 6, 7), the idle gears being non-rotatably connected with the countershafts via shiftable clutches for one of gear or direction change, and an output shaft (8),
- the reverse transmission has first, second, third and fourth forward gears and first, second, third and fourth reverse gears, a first fixed gear (116) and a first idle gear (115) connected with the input shaft (1) via a first forward clutch (KV) for the four forward gears, the first fixed gear (116) on the input shaft (1) being in constant mesh with a second fixed gear (202) on the first countershaft (2) upon which a reverse clutch (KR) is situated, a second idle gear (102) is connectable via the reverse clutch (KR) with the first countershaft (2) and is in constant mesh with a third fixed gear (104), the third fixed gear (104) is additionally in constant mesh with the first idle gear (115) situated upon the input shaft (1) and non-rotatably connected with the third countershaft (4) upon which are situated a fourth fixed gear (204) and a third idle gear (111), the third idle

gear (111) is connectable via a third clutch (K2) for gear change and in constant mesh with a fifth fixed gear (106) situated upon the fifth countershaft (6), and the fourth fixed gear (204) is in constant mesh with a fourth idle gear (113) situated on the fifth countershaft (6) which is capable of being connected, via a fourth shiftable clutch (K4), with the fifth countershaft (6), the fifth fixed gear (106) situated on the fifth countershaft (6) being in constant mesh with a sixth fixed gear (107) and the sixth fixed gear (107) being non-rotatably connected with the sixth countershaft (7) and a sun gear (S) of a planetary stage (P), and the output shaft (8) is non-rotatably connected with a seventh fixed gear (108) which is in constant mesh with a fifth idle gear (117), the fifth idle gear (117) being non-rotatably connected with a planet carrier of the planetary stage (P), a hollow shaft of the planetary stage (P) being connectable either, via a brake (B), with a housing (G) or, via a fifth clutch (K), with the sun gear (S).

21. (NEW) The reverse transmission according to claim 20, wherein the first forward gear is engaged by engaging the first forward clutch (KV), the third clutch (K2) and the brake (B), the second forward gear is engaged by engaging the first forward clutch (KV), the fourth shiftable clutch (K4) and the brake (B) the third forward gear is engaged by engaging the first forward clutch (KV), the third clutch (K2) and the fifth clutch (K) of the planetary stage (P), and the fourth forward gear is engaged by engaging the first forward clutch (KV), the fourth shiftable clutch (K4) and the fifth clutch (K) of the planetary stage (P).

22. (NEW) The reverse transmission according to claim 20, wherein the first reverse gear is engaged by engaging the reverse clutch (KR), the third clutch (K2) and the brake (B), the second reverse gear is engaged by engaging the reverse clutch (KR), the fourth shiftable clutch (K4) and the brake (B), the third reverse gear is engaged by engaging the reverse clutch (KR), the third clutch (K2) and the fifth clutch (K) of the planetary stage (P), and the fourth reverse gear is engaged by engaging the reverse clutch (KR), the fourth shiftable clutch (K4) and of the fifth clutch (K) of the planetary stage (P).

23. (NEW) The reverse transmission according to claim 20, wherein a uniform ratio range is obtained by translation of the planetary stage (P) by shifting from the second gear to the third gear.

24. (NEW) A shiftable multispeed reverse transmission comprising an input shaft (1) and first, second, third, fourth, fifth, sixth countershafts (2, 3, 4, 5, 6, 7), one or more fixed gears and idle gears being mounted on the first, the second, the third, the fourth, the fifth, the sixth countershafts (2, 3, 4, 5, 6, 7), and the idle gears being non-rotatably connected with the countershafts via shiftable clutches for one of gear or direction change, and an output shaft (8),

the reverse transmission has first, second, third, fourth, fifth, sixth, seventh and eighth forward gears and first, second, third, fourth, fifth, sixth, seventh and eighth reverse gears, a first idle gear (115), situated upon the input shaft (1) is connected with the input shaft (1) via a forward clutch (SV) which is one of a synchronizer unit or dog clutch for the eight forward gears, the first idle gear (115) being in constant mesh with a first fixed gear (103) which is situated on the second countershaft (3) upon which a second idle gear (110) and a first shift clutch (K1), by way of which the second idle gear (110) can be connected with the first countershaft (3), and a second fixed gear (203) non-rotatably connected with the first countershaft (3) are situated, and upon the input shaft (1) is situated a third idle gear (116) connectable with the input shaft (1) via a reverse clutch (SR) in the form of one of the synchronizer unit or the dog clutch for the eight reverse gears, the third idle gear (116) being in constant mesh with a third fixed gear (202) upon a first shaft (2) upon which ~~still~~ a fourth fixed gear (102) is situated, and the fourth fixed gear (102) is in constant mesh with a fifth fixed gear (104) which in addition is in constant mesh with the first idle gear (115) situated on the input shaft (1), the fifth fixed gear (104) is non-rotatably connected with the third countershaft (4) upon which is situated a sixth fixed gear (204) and a fourth idle gear (111) connectable via a second clutch (K2) for a gearshift, the fourth idle gear (104) is in constant mesh with a seventh fixed gear (106) situated on the fifth countershaft (6) and connectable via a third shift clutch (K4) with a fifth idle gear (113) in constant mesh with the sixth fixed gear (204) of the third countershaft (4), the seventh fixed gear (106) situated on the fifth countershaft (6) being in constant mesh with an eighth fixed gear (107) situated on the

sixth countershaft (7) and the eighth fixed gear (107) is non-rotatably connected with the sixth countershaft (7) and with a sun gear (S) of a planetary stage (P), the output shaft (8) is non-rotatably connected a ninth fixed gear (108) which is in constant mesh with a sixth idle gear (117), and the sixth idle gear (117) being non-rotatably connected with a planet carrier of the planetary stage (P), a hollow gear of the planetary stage (P) being connectable, via a brake (B), with a housing (G) or, via a fourth clutch (K), with the sun gear (S), the eighth fixed gear (107) situated on the sixth countershaft (7) is additionally in constant operative connection with a tenth fixed gear (105) situated on the fourth countershaft (5), a seventh idle gear (112) on the fourth countershaft (5) being connectable via a fifth shift clutch (K3) with the fourth countershaft (5), the tenth fixed gear (105) situated upon the fourth countershaft (5) being in constant mesh with the second idle gear (110) which, via the first shift clutch (K1), can be connected with the second countershaft (3) and the second fixed gear (203) of the second countershaft (3) is in constant operative connection with the seventh idle gear (112) of the fourth countershaft (5).

25. (NEW) The reverse transmission according to claim 24, wherein the first forward gear is engaged by engaging the forward clutch (SV), the first shift clutch (K1) upon the second countershaft (3) and the brake (B), the second forward gear is engaged by engaging the forward clutch (SV), the second clutch (K2) of the third countershaft (4) and the brake (B), the third forward gear is engaged by engaging the forward clutch (SV), the fifth clutch (K3) and the brake (B), the fourth forward gear is engaged by engaging the forward clutch (SV), the third clutch (K4) and of the brake (B), the fifth forward gear is engaged by engaging the forward clutch (SV), the first shift clutch (K1) and the fourth clutch (K) of the planetary stage (P), the sixth forward gear is engaged by engaging the forward clutch (SV), the second clutch (K2) and the first clutch (K) of the planetary stage (P), the seventh forward gear is engaged by engaging the forward clutch (SV), the third clutch (K3) and the clutch (K) of the planetary stage (P), and the eighth forward gear is engaged by engaging the forward clutch (SV), the third clutch (K4) and the first clutch (K) of the planetary stage (P).

26. (NEW) The reverse transmission according to claim 24, wherein the first reverse gear is engaged by engaging the reverse clutch (SR), the first shift clutch (K1) and the brake (B), the second reverse gear is engaged by engaging the reverse clutch (SR), the second clutch (K2) and the brake (B), the third reverse gear is engaged by engaging the reverse clutch (SR), the fifth clutch (K3) and the brake (B), the fourth reverse gear is engaged by engaging the reverse clutch (SR), the third clutch (K4) and the brake (B), the fifth reverse gear is engaged by engaging the reverse clutch (SR), the first shift clutch (K1) and the fourth clutch (K) of the planetary stage (P), the sixth reverse gear is engaged by engaging the reverse clutch (SR), the second clutch (K2) and the fourth clutch (K) of the planetary stage (P), and the eighth reverse gear is engaged by engaging the reverse clutch (SR), the third clutch (K4) and the second clutch (K) of the planetary stage (P).

27. (NEW) The reverse transmission according to claim 24, where a ratio of the planetary stage (P) is selected so that by changing from the fourth gear to the fifth gear, a uniform ratio range is obtained.

4. The following is an examiner's statement of reasons for allowance: The prior art of record does not disclose or render obvious a motivation to provide for a shiftable multispeed reverse transmission as defined by the limitations of claims 20 and 24; including an input shaft, an output shaft and six countershafts, fixed gears and idle gears mounted on the shafts having particular gear meshing arrangement, a plurality of particular clutches, and a particular planetary stage having a brake, wherein the transmission has four or eight forward gears and four or eight reverse gears.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Cited Prior Art***

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: see attached form PTO-892 of which each reference shows a transmission having a plurality of countershafts, clutches to provide a plurality of gear speed ratios.
7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ha D. Ho whose telephone number is 571-272-7091. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor can be reached on 571-272-7095.
8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).